**Table 1: December 4, 2002 - System Issues and Status**

| Activity | Lead | Status |
|---|---|---|
| Processing Strategy | Geier | As of 12/2/02<br>• Active processing requests in approximate order of priority:<br><br>Instrument/ERBElike/MOA processing to continue at a high priority as the inputs/software are available.<br><br>- Terra Edition2 BDS and ERBElike data sets (PR 74-02 to 79-02)<br>- Terra Edition1/Baseline1-QC BDS and ERBElike data sets (standing requests)<br>- Aqua Beta1/Beta1-QC BDS and ERBElike data sets (standing requests)<br>- ECMWF-GESO3 MOA for Sep'02 (PR 90-02)<br>- ECMWF GEOS4 MOA for Oct'02 - Oct'03 (PR 94-02)<br><br>Terra Edition1A SSF (PR 84-02, 83-02): process the following months in the specified order, BUT if go ahead is given for TRMM Edition2B SRBAVG and ASDC can run it faster by taking resources from SSF production and applying them to GGEO and SRBAVG, then that should be done - even if it stops SSF production completely for a period of time.<br><br>July 2001<br>March 2000 (I'm assuming Clouds delta can promote when 3/00 finishes)<br>August 2001<br>September 2001<br>April 2000<br>May 2000<br>June 2000<br>July 2000<br>August 2000<br>(Hopefully, by this time IES for Oct'01 will be available.)<br><br>Terra Beta1 SFC (PR 86-02, 87-02): finish January'01 and follow it with March 2000. Process April 2001 and July 2001 in whatever order is easiest for ASDC once 3/00 has finished. Processing remaining months will be revisited when these 4 are complete. (PGE 9.4 must be promoted and run for all SFC months for which binary is already available. |

**Table 1: December 4, 2002 - System Issues and Status**

| Activity | Lead | Status |
|---|---|---|
| | | • Processing requests expected to be active within 3-4 weeks are:<br><br>TRMM ValR7 GGEO / ValR7 SRBAVG: process 2 months at highest available priority. This data set must be approved by Science prior to launching into Editions of these products.<br><br>TRMM Edition1 GGEO / Edition2B SRBAVG: process all 9 months at highest available priority.<br><br>Terra Beta1 CRS: process the following months in whatever order is easiest for ASDC at a very high priority. Contact Erika if slowing down SSF processing and using those resources for CRS would be helpful.<br><br>January 2001<br>April 2001<br>July 2001<br>March 2000<br>(Processing the remaining months will be revisited when these 4 are complete.)<br><br>Terra Beta1 SFC: finish January'01 and follow it with March 2000. Process April 2001 and July 2001 in whatever order is easiest for you once 3/00 has finished. Processing remaining months will be revisited when these 4 are complete. (PGE 9.4 must be promoted and run for all SFC months for which binary is already available.)<br><br>Edition1 GGEO / Terra Beta1 SRBAVG: process same 4 months as CRS. Highest priority is March 2000. Remaining 3 months can be done in whatever order is easiest for ASDC. Cathy will make Terra Beta1 SRBAVG delivery as soon as ValR7 SRBAVG is approved (or 12/20, which ever comes first) to speed things.<br><br>TRMM Edition2B FSW: process all months at medium priority once ValR1 is approved. (PGE 6.3 must be promoted, run as ValR1, and approved by Science before this can happen.) |

**Table 1: December 4, 2002 - System Issues and Status**

| Activity | Lead | Status |
|---|---|---|
| | | • Processing requests expected to be active within 1-2 months are:<br><br>- Aqua Baseline1/Edition1 BDS and ERBElike (very high priority)<br>- Terra Beta3 FSW (low priority)<br><br>• Issued processing requests which have been placed on hold:<br><br>- Standing request for Baseline1 BDS, ERBElike. Continue processing Edition1 until all BDS & ERBElike data has been reprocessed as Edition2 and Science is happy with it. Only then will Edition1 be replaced by Baseline1. |
| CM | Ayers | • See Table 2 for SCCR activity since the last DMT meeting. SCCRs for Subsystems 1-4 that need to be reviewed follow Table 2. (Ayers)<br>• Tested the following deliveries and released them to the ASDC: Instrument (SCCR 402) and TISA Gridding (SCCR 403). (Ayers)<br>• Converted the two JavaScript scripts that place the LMS-CP-5909 information on the HTML files and on the dynamically created files into one script to make the code easier to maintain. (Franklin)<br>• Updated and posted a new Delivery Schedule on the CERES Configuration Management Schedules Web page (http://earth-www.larc.nasa.gov/cerescm/schedules/). (Ayers, Franklin)<br>• Updated some older CM delivery schedules to make them consistent with other schedules and centered the LMS-CP-5909 information on the delivery schedules. *saisun26* went down on Friday, so this work has not yet been completed and moved to *lposun*. (Franklin) |

**Table 2: SCCR Activity November 18 at 11:30am - December 4 at 11:30am**

| SCCR | S | U | A | C | D | SS | Page No. | Comments |
|---|---|---|---|---|---|---|---|---|
| 402 | | | X | | | 1 | | |
| 403 | X | | X | | | 6 & 9 | 5 | |
| 404 | X | | | | | 4.1-4.4 | 6 | |

**S**=Submitted; **U**=Updated; **A**=Approved; **C**=Closed; **D**=Disapproved; **SS**=Subsystem

**CERES Software Configuration Change Request Submittal**

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Subsystem: TISAgrid SCCR Date & TIME: 2002-11-22 12:16:32 SCCR No.: 403

Description of Change (Science):
N/A

Reason for Change (Science):
N/A

Description of Change (non-Science):
CER9.4P1 code was updated to generate 36 SFC HDF files for Terra processing. CER6.3P1 code was updated to write FSW HDF files in new format.

Reason for Change (non-Science):
This change is needed due to increased amount of data and the HDF file size limitations. This change is to make FSW HDF product format consistent with the SFC HDF product format.

Affected PGEs : PGEs CER9.4P1, CER6.3P1

Est. Time to Complete Changes: Two weeks
Planned Delivery Date : November 29, 2002
Impact : N/A

Originator: RAJU, RAJA (SAIC)

**CERES Software Configuration Change Request Submittal**

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Subsystem: Clouds SCCR Date & TIME: 2002-11-27 16:30:14 SCCR No.: 404

Description of Change (Science):
None

Reason for Change (Science):
None

Description of Change (non-Science):
CER4.1-4.1P2
1. Modify environment script and PCF Generator to remove production machine dependence instead the environmental variable PRODUCTION will be used.
2. Modify PCF Generator to handle the longer imager radiance and geolocation file directory and names during SSIT.

Reason for Change (non-Science):
Current scripts will not work correctly for production on samantha2. With the addition of the sub-directories under MODIS input, the length of directory and file names exceeds the environmental variable length when 12 granules are processed.

Affected PGEs : CER4.1-4.1P2

Est. Time to Complete Changes: 2 days
Planned Delivery Date : December 4, 2002
Impact : Inability to start production on Samantha2

Originator: MILLER, WALTER F. (SAIC)

**Table 3: December 4, 2002 - Subsystem Status**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 1.0 | Cooper/ Escuadra | • Delivery of updates for SCCR #402 made to CERES CM. (Cooper)<br>• FTP'd, copied and daacget used to get data necessary for analysis of Aqua data to *thunder* for use by SS1 Team. (Cooper)<br>• Analyzed Aqua and Terra data to determine if there has been any change in the Terra Second Time Constant Coefficients and to determine if the ground based Aqua Second Time Coefficients are valid. The derived values were posted to the web along with the values currently being used in the SS1 code. Plots of the values were also posted to the web. (Hess, Spence)<br>• Terra - Aqua intercomparison for August 2002 was completed. Statistics were computed for varying scene types. (Szewczyk)<br>• A trial run of the Principal Plane Scanning (PPS) was completed on Nov. 25th. Analysis of this data has been preformed. PPS will be done for the next 5 - 7 days and analysis of the results will be done as the data becomes available. (Szewczyk) | Problems with disk at ASDC causing delays in processing of data needed for analysis to determine in-flight Aqua count conversion coefficients. |

**Table 3: December 4, 2002 - Subsystem Status**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 2.0 | Kizer | • Continue a study of Terra inter-comparison when both FM1 and FM2 are in identical start time and scan mode. (Kizer, Walikainen)<br>• Completed incorporating the direct comparison scripts and programs to run in conjunction with CER3.2P1 when only two instruments are combined. Testing has begun. (Kizer)<br>• Began investigating Sunglint angles tolerances based on some infrequent occurrences beyond current Solar Zenith tolerances. (Walikainen)<br>• Continued development of IDL code to plot daily updated instrument statistics files. (Kizer)<br>• Began development of ES-9 data extraction program for time-series plots. (Kizer)<br>• Continuing to examine the production email generated by the QC checker software. (Walikainen)<br>• Continuing to inspect ERBE-like Terra and TRMM output plots and QC reports on the Web. (Walikainen, Kizer) | |
| 3.0 | Kizer | Combined with above. | |

**Table 3: December 4, 2002 - Subsystem Status**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 4.1 | Sun-Mack | • Completed processing TRMM VIRS Edition 2 CloudVis images for Region 13 (Brazil South) from January 1998 through December 1999, and Region14 (Taiwan) Daytime and Nighttime from January 1998 through December 1999. Processed Terra MODIS Edition1A CloudVis images for November and December of 2001 for the following regions: Sub-Saharan Africa, Dry Tortugas, Brazil (South), Central China, Tropical Western Pacific and Pacific ITCZ. (R.Brown)<br>• Updated QC web script to add in web compliancy information when generating QC web pages. Worked on web compliancy of the Emissivity and Albedo section of the Cloud Working Group Web page. (R.Brown)<br>• Post-processed QC results for Terra MODIS Edition1A for May and June of 2001 and posted on the web. Also reprocessed 2000 datasets due to loss of update files in disk crash. Ran QC comparison for *samantha2* test files. (R.Brown)<br>• Processed SCOOL datasets from 199701-199912 using new inputs from the ASDC (R.Brown).<br>• Created over 100x6 twilight images of Terra MODIS for many channels for the proposal that Pat Minnis is preparing. (Sun-Mack, Chen)<br>• Implemented 2.1um bi-directional model into the production code. Modified the production offline code to create clear sky map for 2.1um and directional model for 2.1um. A day of Aqua MODIS data was run for testing purpose. Currently checking the results from the run. (Sun-Mack) | |
| 4.2 | Sun-Mack | Combined with above. | |
| 4.3 | Sun-Mack | Combined with above. | |

**Table 3: December 4, 2002 - Subsystem Status**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 4.4 | Miller | • Successfully tested PGEs using Toolkit 5.2.8.2v2. There is a discrepancy in the QC report for one mean radiance, but don't think it is directly tied to Toolkit. (Miller)<br>• Assisted with Terra clouds main processor testing on *samantha2*. Requested update of leap second file and PGS messages. (Miller)<br>• Updated scripts to remove production machine dependency and resolve an issue of exceeding environmental variable length for full hour (12 granule) testing in SSIT. (Miller)<br>• Prepared predelivery memo. (Miller)<br>• Monitoring Terra Edition1A processing for July 2001. (Miller) | |
| 4.5 | Nolan | • Copied the available June and July 2001 FM1 and FM2 subset files to the Terra Edition1A SSF subset directories on the SCF for the ADM working group. The remaining monthly files and the remaining June and July files will be placed in the directories as they become available on *samantha*. (Franklin)<br>• Generated monthly validation data products for newly available 2001 Edition1A Terra data for the months January through May. (Hoppe)<br>• Tested PGE4.6-3P2 with different sets of data. (Hoppe) | |
| 4.6 | Nolan | Combined with above. | |
| 5.0 | Coleman | • Testing and comparing results between *samantha* and *samantha2*. (Coleman, Caldwell)<br>• Investigating high number of FOVs thrown out by SARB software. (Coleman) | |
| 7.2 | Coleman | Combined with above. | |
| 12.0 | Coleman | • Testing and comparing results between *samantha* and *samantha2*. (Caldwell) | |

**Table 3: December 4, 2002 - Subsystem Status**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 7.1 | Nguyen | • Complete validating TOA SW fluxes in GMT and correcting the cosine solar zenith angles in GMT. (Nguyen)<br>• Adjusted the hour box to the correct time after getting inputs from FSW. (Nguyen)<br>• Complete validating SW TOA flux. Validating LW TOA flux and comparing with the LW TOA flux at local time. (Nguyen) | |
| 8.0 | Nguyen | • No new updates. | |
| 10.0 | Nguyen | • Tested and compared the SW TOA fluxes of the old program and the re-writing the GGEO SW interpolation programs. (Nguyen)<br>• Ran the IDL time-series plot program on *Samantha2* again and got the message fron *Samantha2* that the IDL license file is not found and the temporary license is limited to 7 minutes of operation. This test is not complete. (Nguyen)<br>• Sent the SRBAVG Collection Guide to Dave Young to final decision. (Boghosian) | |
| 6.0 | Raju | • Modified the CER6.3P1 PCF generator scripts to include newly created configuration code for the PGE. Updated Operator's manual and test plan documents. Delivered PGE 6.3P1 to CERES CM. (Raju) | |

**Table 3: December 4, 2002 - Subsystem Status**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 9.0 | Raju | • Modified the CER9.4P1 PCF generator scripts to include newly created configuration codes for the PGE. Updated Operator's manual and test plan documents. Delivered PGE 9.4P1 to CERES CM. (Raju)<br>• Wrote a Fortran90 program to read the TRMM SFC HDF Edition2B product. Sent a read package, including the executable program along with source code and a README file, to Dr. Laura Fowler (Dept. of Atmospheric Sciences, Colorado State University). (Raju)<br>• Created Edition2B SFC binary files for two days of January 1998 TRMM data, as requested by the Tisa GGEO group to provide input for its test suites. (Raju) | |

**Table 3: December 4, 2002 - Subsystem Status**

| SS No. | SS Lead | Status | Problems |
|---|---|---|---|
| 11.0 | Stassi | • The attempt to patch GGEO files with selective production reprocessing (no redelivery necessary) did not succeed. Another GGEO delivery will be necessary. A February 1998 GGEO file was created to test the results of the GGEO code corrections. Cathy ran the this file through Tisa Averaging, and her results showed that the anomaly was corrected. (Stassi, Nguyen)<br>• Wrote a program for making a copy of a subset of a GGEO granfile. (Stassi)<br>• Modified the GGEO IDL code in PGEs 11.3-5P1 to work with the newer IDL version found on *samantha2*. Two changes were required. The TODAY() function was replaced by the function combination BIN_DATE(SYSTIME()), and the PGE run scripts were modified to expand the $CERESHOME environment variable prior to the IDL code compilation. (Stassi)<br>• Ran test suites for PGEs 11.3-5P1 with the Edition2B SFC inputs, which Raja created for my testing. (Stassi, Raju)<br>• Investigated the core dumps which occurred during validation testing of the 2nd pass main processor with the viewing zenith angle limit turned off. Found a subroutine call with mismatched calling parameters. Checking to see the best way to correct this. (Stassi) | |
| CERESlib Stassi/Ayers | | • Compiled and tested CERESlib on the linux cluster using the Intel F90 compiler. The Intel compiler using *.d, *.pc, and *.pcl files in place of the *.mod files we have with the SGI and NAG compilers. The ceres-env.csh script was modified to account for these differences and to minimize the impact of porting code from Sun workstations to the cluster. (Stassi)<br>• Sent John a listing showing the differences in the memory hard limit on *samantha* and *samantha2*. (Stassi) | |